

HANFORD SITE

Environmental Restoration Contract *Monthly Performance Report*

February 2004

Accelerating Cleanup ...



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

February 2004 Monthly Report

SAFETY:

During the period October 1, 2003 through February 29, 2004, the ERC experienced 13 first aid incidents, 1 lost/restricted incident, and 1 lost away injury, which equates to having **91% of our workdays injury free**. The ERC Team is actively preparing for the DOE-HQ on-site VPP evaluation currently scheduled for May 2004.

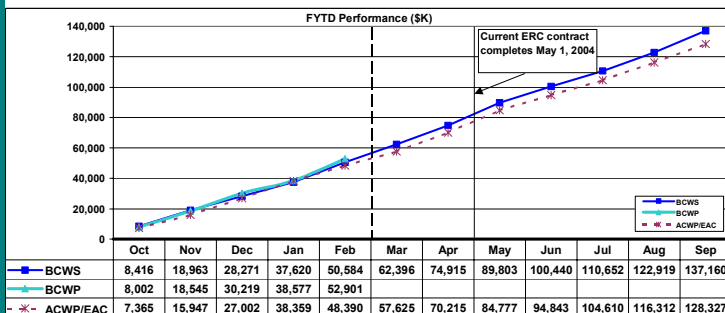
HIGHLIGHTS:

- Submitted RFP package to Procurement for H Reactor SSE design/construction.
- Demolition of upper portions of D Reactor is 50% complete (in support of SSE installation).**
- Completed BHI formal Readiness Assessment for B/C Burial Ground and Remaining Sites remediation.
- Completed closeout sampling for both KE / KW Condensate Crib.
- Started overburden removal in 116-K-2 Mile Long Trench.
- Received and initiated bid evaluation for 116-N-1 Crib remediation.
- Completed final grading/revegetation of 300-FF-1 OU and 618-5 Burial Ground.**
- Issued RFP for four 300-FF-2 OU accelerated sites.
- Completed ERDF Cells 5/6 excavation (remaining soil will be used for berm construction and operational cover after liner installation).
- Completed 100/300 Area risk assessment rad surveys on D-Island (100 D Area surveys 95% complete).
- Completed 100 B/C Pilot Conceptual Model Report comment resolution.

UPCOMING KEY ACTIVITIES:

- Complete H Reactor FSB demolition/loadout - 3/12/04.**
- Initiate preparation of 105-N, 109-N, and 100 K ancillary facilities EE/CAs - 3/1/04.
- Issue 100 Area Remaining Sites ESD which adds 28 confirmatory sites to the ROD.
- Award 116-N-1 Crib remediation subcontract.
- Complete treatment/disposal of depleted uranium chips-in-oil drummed waste by end of May 2004.**
- Start admix production and placement in early March.
- Place draft of 100/300 Area General Work Plan Sections 1 and 2 on Web page for Tribes and stakeholders review.
- Update 100 B/C Pilot field sampling plan for second-year sampling.

PERFORMANCE:



GREEN TEXT = AHEAD OF SCHEDULE
RED TEXT = BEHIND SCHEDULE

- SV:** \$2,316K; 4.6%. 300 Area backfill/regrade significantly ahead of schedule; overburden removal for 116-K-2 Mile Long Trench, K Area pipeline excavation, uranium chips-in-oil drums treatment all ahead of schedule; offset by delayed start of H Reactor gas wing demolition (impacted by weather).
- CV:** \$4,511K; 8.5%. 300 Area backfill/regrade subcontract award less than plan; fewer resources required by DR Ancillary facilities D&D, F Reactor, and 100 Area S&M; offset by increased uranium chips-in-oil treatment cost.

EAC TRENDS:

FYTD: (\$8,833K)

Current Month: (\$4,194K)

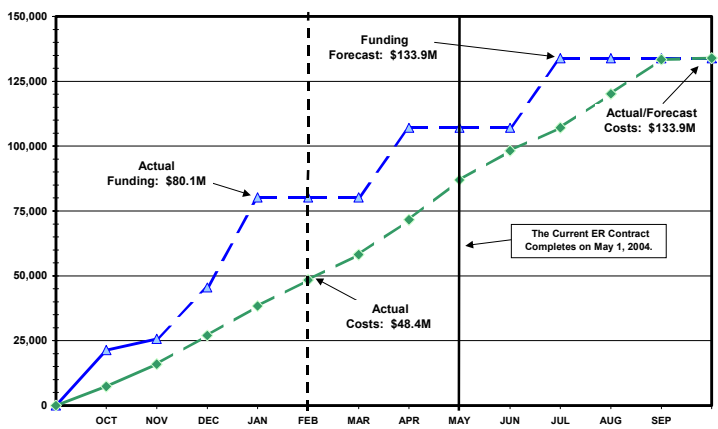
- Labor reductions at N Area, 300 Area, Group 4, and 100 Area S&M; 300 Area backfill/regrade efficiencies.

TPA MILESTONES:

Three TPA milestones were scheduled for completion during FY04:

- M-16-03H, Complete 300 Area regrade (due 6/30/04); completed 2/19/04.**
- M-16-26E, Complete 100 B/C pipeline excavation (due 9/30/04); completed 11/5/03.**
- M-93-11, Complete F Reactor ISS (due 9/30/04); completed 1/15/04.**

FUNDING:



PERFORMANCE INCENTIVES:

- SPI = ~1.09 FYTD through February.
- Remove a Gold Chart radiological facility by 3/1/04. **Demolished above-grade portion of 1304-N tank. Technical issue with below-grade demolition; expect to complete 4/1/04.**
- Complete 10 Gold Chart release sites by 3/1/04. Completed on 2/23/04.**
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. Completed on 2/19/04.**

ISSUES:

- Non-ERC Hanford waste to ERDF acceptance criteria.



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

February 2004 Monthly Report

SAFETY:

FYTD: 5 first aids; 0 recordable; 0 lost workday; 0 skin contaminations
Current Month: 3 first aids (strains)

HIGHLIGHTS:

H Reactor:

- Completed 95% of FSB demolition/loadout.
- Held pre-bid meeting and walkdown for gas wing explosive demolition subcontract on 2/17/04.
- Submitted RFP package to Procurement for H Reactor SSE design/construction. Bidder walkdown will be held mid-March.

D Reactor:

- Completed readiness-to-proceed evaluation with SSE subcontractor.
- Demolition of upper portions of reactor building is 50% complete (in support of SSE installation).

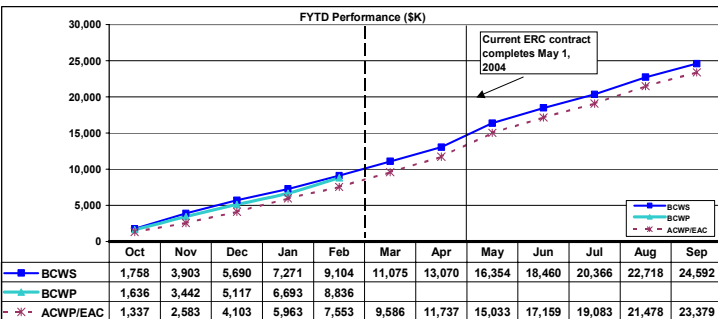
1304-N Emergency Dump Tank:

- Completed demolition/loadout of above-grade portion of tank.
- Completed job replanning for below-grade tank. Supports, asbestos, and impediments to torch cutting encountered in bottom of tank.

UPCOMING KEY ACTIVITIES:

- Complete demolition/loadout of H Reactor FSB - 3/12/04.
- Award subcontract for H Reactor gas wing demolition - 3/18/04.
- Award subcontract for H Reactor SSE design/construction - 5/15.
- Complete demolition/loadout of 1304-N tank - March.
- Remove lead from 1714-N storage facility - 3/1/04.
- Initiate preparation of 105-N/109-N EE/CA - 3/1/04.
- Initiate preparation of 100 K ancillary facilities EE/CA - 3/1/04.

PERFORMANCE:



- SV:** (\$268K); (2.9%). H Reactor FSB demolition impacted by inclement weather which delayed starting gas wing demolition.
- CV:** \$1,283K; 14.5%. Fewer resources required for 100 Area S&M. Less project support/oversight required for DR ancillary facilities D&D and F Reactor.

EAC TRENDS:

FYTD: (\$1,213K)

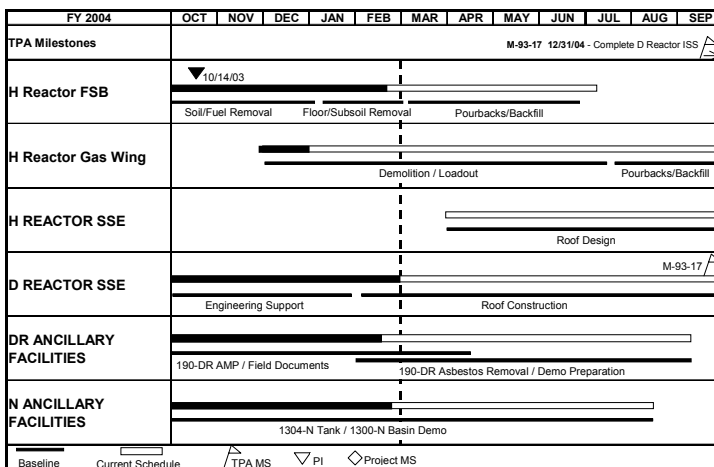
Current Month: (\$872K)

- 100 Area S&M utilizing fewer resources than expected.
- 117-DR demolition/loadout efficiencies.

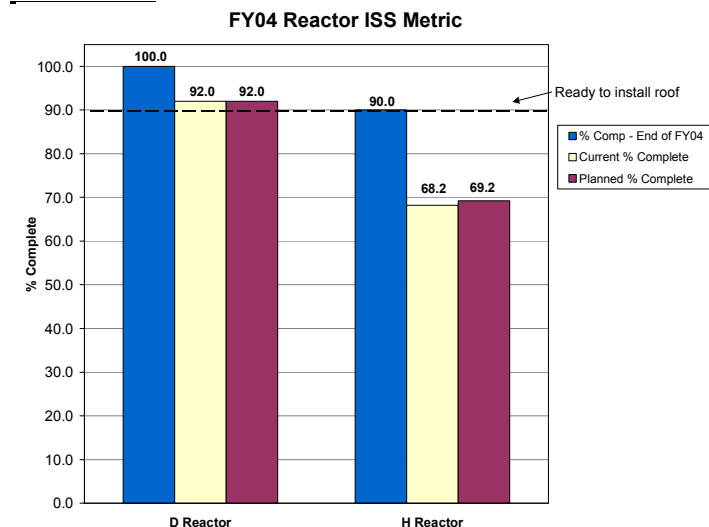
TPA MILESTONES:

- M-93-11, Complete F Reactor ISS (due 9/30/04); *completed 1/15/04, more than 8 months ahead of schedule. (Physical ISS work completed in August; regulators approved S&M Plan on 1/15/04.)*
- M-93-17, Complete D Reactor ISS (due 12/31/04); *forecast 9/30/04.*

SUMMARY SCHEDULE:



ISS METRIC:



PERFORMANCE INCENTIVES:

Remove a Gold Chart radiological facility by 3/1/04. *Demolished above-grade portion of 1304-N tank; began loadout to ERDF. Technical issues with below-grade demolition; expect to complete 4/1/04.*

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

February 2004 Monthly Report

SAFETY:

FYTD: 3 first aids; 0 recordable; 0 lost workday cases
Current Month: None

Occurrence:

- End dump trailer rollover incident on February 24.
(RL-BHI-REMACT-2004-0002)

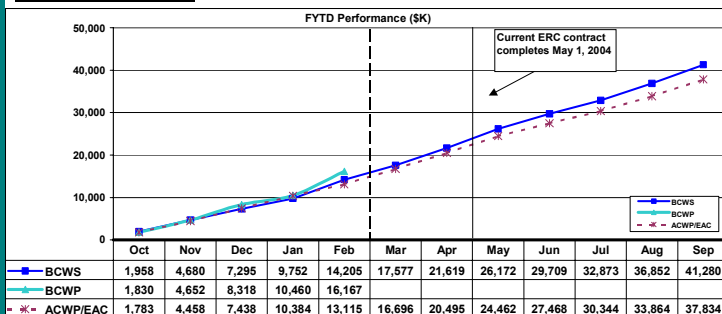
HIGHLIGHTS:

- Processed and received approval for 10 BCPs (~ \$9.5M) to accelerate outyear scope into FY04.
- Completed BHI formal Readiness Assessment for B/C Burial Ground and Remaining Sites remediation; began clean overburden removal from 118-B-1 Burial Ground; began clearing/grubbing 600-232 laydown waste site.
- Completed closeout sampling of both KE and KW Condensate Crib.
- Completed backfill of five small sites (K Area).
- Started overburden removal in 116-K-2 Mile Long Trench.
- Received and initiated bid evaluation for 116-N-1 Crib remediation.
- Completed final grading at 300 Area on 2/19/04; completed revegetation for entire 300-FF-1 OU and 618-5 Burial Ground on 2/20/04.
- Issued RFP for four 300-FF-2 accelerated sites.
- Issued contract mod for highway modifications and electrical upgrades to support upcoming work at 618-7.
- Issued Rev. 0 of 100 B/C north pipelines CVP.
- Issued Draft A of 100 B/C south pipelines, 116-KW-3 Retention Basin, and 105-F Reactor and associated waste sites CVPs for RL/regulator review.
- Issued Draft A of 118-B-9 Tritium Vault and Laboratory and 100-B-11 Caisson Sump, Drywell, Tank, and Caisson Valve Site Remaining Site Verification Packages for RL/regulator review.
- Submitted drafts for 300-FF-2 RDR/SAP/ESD for regulator review.
- Completed the 100-IU-2 and 100-IU-6 confirmatory sites walkdown.

UPCOMING KEY ACTIVITIES:

- Issue Rev. 0 of 618-4 and 618-5 Burial Grounds and 117-DR facilities CVPs in March.
- Issue Draft A CVPs for first four 100 B/C Area Burial Grounds for RL/regulator review in April.
- Perform confirmatory sampling for 4 100-IU-2 and 100-IU-6 sites.
- Perform sampling for 116-C-3 Chemical Tanks Investigation.
- Issue 100 Area Remaining Sites ESD which adds 28 confirmatory sites to the ROD.
- Develop sampling plan for 100 D Area hexavalent chromium plume investigation, with field sampling to begin first week of April.
- Submit BCP for acceleration of four small 300 Area sites.
- Award 116-N-1 Crib remediation subcontract.

PERFORMANCE:



GREEN TEXT = AHEAD OF SCHEDULE
RED TEXT = BEHIND SCHEDULE

- SV:** \$1,962K; 13.8%. 300 Area backfill/regrade completed significantly ahead of schedule. Overburden removal for 116-K-2 Mile Long Trench and K Area pipeline excavation ahead of schedule.
- CV:** \$3,052K; 18.9%. 300 Area backfill/regrade subcontract award less than plan; N Area final contract closeout less than planned; understated B/C Burial Ground accrual. February BCP approvals significantly improved cost performance for work that had proceeded under approved trend.

EAC TRENDS:

FYTD: (\$3,447K)

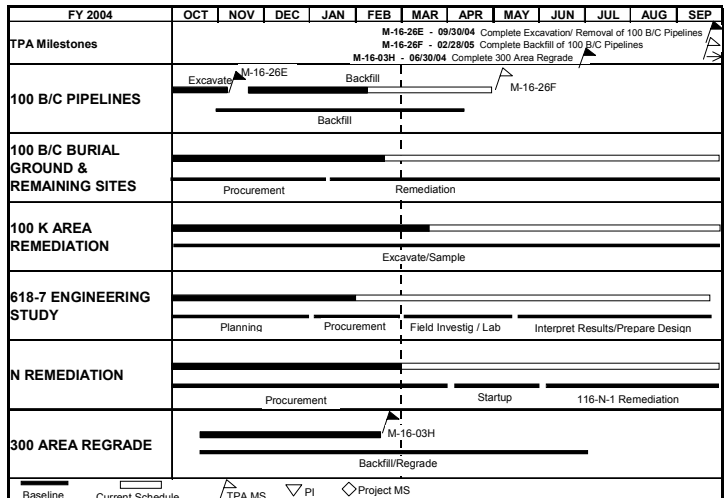
Current Month: (\$2,216K)

- Labor reductions at N Area, 300 Area, and Group 4; 300 Area backfill/regrade subcontract efficiencies.

TPA MILESTONES:

- M-16-03H, Complete 300-FF-1, 618-4, and 618-5 Burial Ground regrade (due 6/30/04); **completed 2/19/04, more than 4 months ahead of schedule.**
- M-16-26E, Complete excavation/removal of 100 B/C pipelines (due 9/30/04); **completed 11/5/03, nearly 11 months ahead of schedule.**
- M-16-26F, Complete backfill of 100 B/C pipelines (due 2/28/05); **forecast 4/30/04.**

SUMMARY SCHEDULE:



PERFORMANCE INCENTIVES:

- Complete 10 Gold Chart release sites by 3/1/04. **Completed on 2/23/04.**
- Complete 300-FF-1/618-5 Burial Ground regrade by 3/1/04. **Completed on 2/19/04.**

ISSUES:

None for this reporting period.



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ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

February 2004 Monthly Report

SAFETY:

FYTD: 5 first aids; 0 recordable; 0 lost workday cases
Current Month: 1 first aid (eye irritation)

Occurrences:

- Empty roll-off container rolled part way off the back of a disposal subcontractor's shuttle truck and contacted the ground on February 24. There were no injuries, releases to the environment, or equipment damage. (RL-BHI-2004-0002)

HIGHLIGHTS:

- Received 36,800 tons of waste at ERDF during February; 177,580 tons during FY04; 4,695,345 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Delayed treatment of 183-H Basin waste due to problems encountered while dumping first container. Developing revised work methods to facilitate release of waste from the drums and address nuisance dust issues associated with dry/flighty absorbent materials.
- Received and disposed seven roof slabs from 233-S.
- Treated and disposed all carbon-14 waste (30 containers) from 116-KW-1 and 116-KE-1 Condensate Cribbs. The waste was treated to stabilize carbon-14, greatly reducing its mobility.
- Provided technical support to RL in preparing a time critical Removal Action Memorandum for the eventual disposal of the low level fraction of retrieved TRU waste (C3T initiative).
- Excavated 151,988 cubic yards at ERDF expansion in February; 1,336,500 BCY since inception; 48,800 BCY to go, 96.5% complete. With exception of the remaining soil that will be left to avoid double handling for berm construction and operational cover, Cells 5/6 excavation was completed on February 26.
- Completed ~85% of north berm construction. The exposure of the existing cell liner was completed on February 26.
- Completed 90-day test pad monitoring test period with good test results. RL and regulators were briefed on results.
- Initiated lysimeter installation with gravel testing and preliminary coordination activities.
- Continued low voltage installation.
- Suspended use of Articulated Dump Trucks (ADTs) when an ADT rolled dump bed portion (leaving cab in an upright position) during second shift operations on January 26. Mass excavation, using ADTs, was resumed on February 11, when ERC approved the construction subcontractor's Corrective Action Plan.

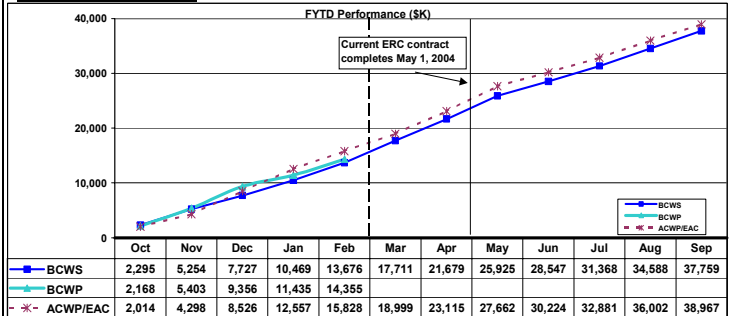
UPCOMING KEY ACTIVITIES:

- Complete treatment of depleted uranium chips-in-oil drummed waste (from 618-4 Burial Ground) that was sent to Oak Ridge in September. All treatment is expected to be complete by April. Treated waste will be returned to ERDF for disposal. (M-16-03I).
- Resume treatment of 183-H drums in early March.
- Provide technical support to ensure the low level fraction of retrieved TRU Waste (C3T initiative) meets the requirements of ERDF Waste Acceptance Criteria (BHI-00139) and ERDF Supplemental WAC (0000X-DC-W0001).
- Start admix production and placement in early March.
- Complete north and south berm construction in March.

TPA MILESTONES:

M-16-03I, Complete treatment of drummed waste from 618-4 Burial Ground (due TBD)

PERFORMANCE:



- SV: \$679K; 5.0%. Treatment of uranium chips-in-oil drums ahead of schedule; offset by temporary ERDF expansion delay.
- CV: (\$1,473K); (10.3%). Overstated accrual for waste disposal; increased uranium chips-in-oil treatment cost. Accrual to be corrected next month.

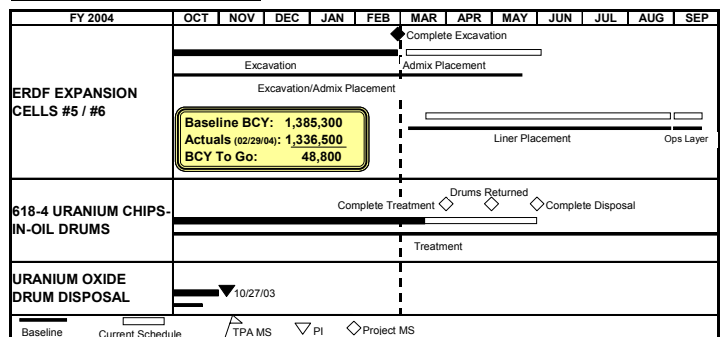
EAC TRENDS:

FYTD: \$1,208K

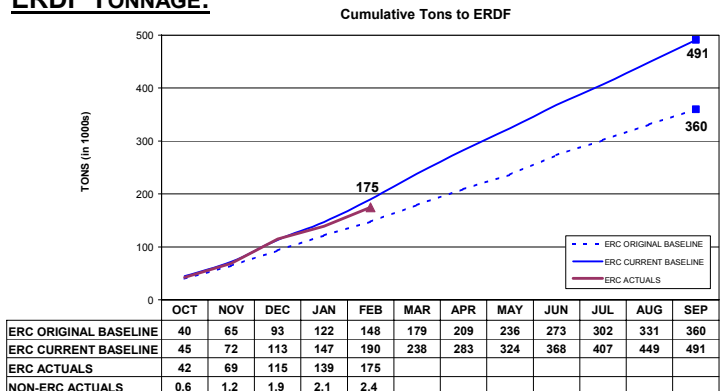
Current Month: (\$620K)

- Transportation resources less than planned.

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

- Non-ERC Hanford Waste to ERDF. Evaluate the acceptance criteria of Hanford Site waste disposal.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

February 2004 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

100/300 Area:

- Continued development of General Work Plan for the River Corridor baseline risk assessment.
- Completed risk assessment rad surveys on D-Island (100 D Area 95% complete).
- Completed development of Tribal Communication/Consultation Plans with the Nez Perce and Wanapum.
- Completed historical data collection and analysis draft information on 2/26/04.
- Unable to begin 100 K Area field gamma surveys as planned due to weather delays and work prioritization. 100 K Area surveys started in January and are 32% complete. All surveys expected to complete on schedule 4/23/04.
- Provided data management support for the cleanup verification documentation for 100-K-29, 100-K-30, 100-K-31, 100-K-33, and 128-K-1 Remaining Sites. These are the initial sites transitioned from the Remaining Sites project support team to the CVP Team for documentation.

100 B/C Pilot:

- Completed Conceptual Model Report comment resolution on 2/23/04.
- Completed data evaluation to determine additional data needs.
- Continuing to work on Tribal Scenario development.

Other:

- Completed draft Lead Sheath Cable Sampling and Analysis Plan on 2/12/04. RL review will complete on 3/3/04.
- Incorporated CVP sampling sites into the database. Currently, data is in AutoCAD and is being converted into GIS, along with updating the database attributes. 100 B/C, 100 D, and 100 F Areas are in the process of being updated.

UPCOMING KEY ACTIVITIES:

100/300 Area:

- Place draft of General Work Plan Sections 1 and 2 on Web page for Tribes and stakeholders review.

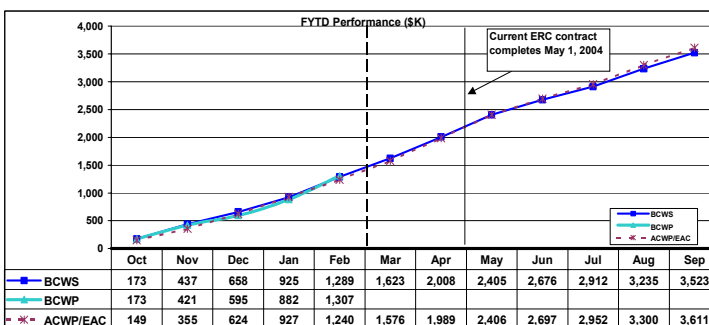
100 B/C Pilot:

- Update field sampling plan for second-year sampling.
- Sample data collection/review Round #1, scheduled to complete in January, will not complete until March. Samples were not delivered to the lab in a timely manner. No additional schedule impact is anticipated.
- Complete first draft of Computational Methods document for decision-maker review in March. This effort was delayed to incorporate detailed sampling data.

Other:

- Hold initial planning meeting for the Columbia River Component of the River Corridor Baseline Risk Assessment Project week of March 15.

PERFORMANCE:



- SV:** \$18K; 1.4%. B/C Pilot Risk Assessment Report and 100/300 Area Risk Assessment of Existing Data efforts slightly ahead of schedule.
- CV:** \$67K; 5.1%. Less support required for General Work Plan preparation. Unrealized B/C Pilot Study Round 1 sampling lab charges will eventually reduce this variance.

EAC TRENDS:

FYTD: \$88K

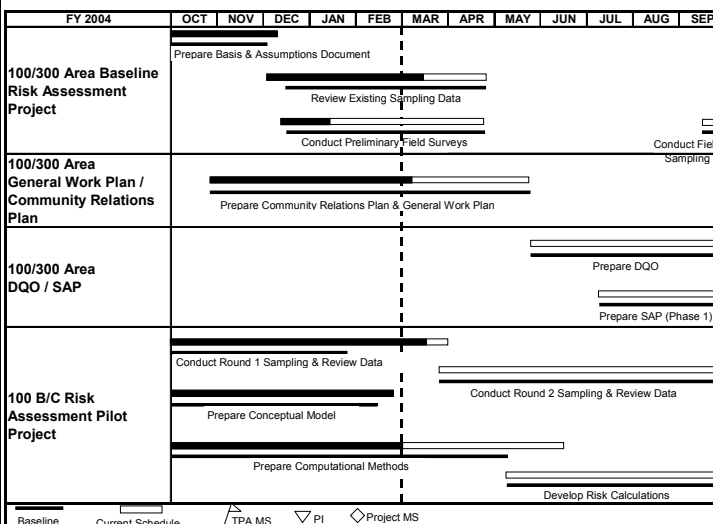
Current Month: (\$66K)

- Re-evaluation of resources required to perform remaining scope.

TPA MILESTONES:

No FY04 milestones.

SUMMARY SCHEDULE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION PROGRAM MANAGEMENT AND SUPPORT PROJECT

February 2004 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

Safety and Health:

- Prepared and submitted the annual update of the ISMS Description document to RL for review and approval.
- Purchased new calibration source standards to improve accuracy of airborne radioactivity measurements. This will enable on-site analysis for samples that previously required off-site evaluation.
- Provided innovative radiation monitoring methods in support of the 100 K Area remediation project. This allowed RadCon to monitor for low energy beta emitters that are present at this location.

Technical Services:

- Completed BHI certification of Hanford Facility RCRA Permit Renewal Application. The certification was provided to Fluor Hanford (FH) for inclusion in the site-wide renewal application package.
- Submitted the annual Hanford Facility RCRA Permit Noncompliance Report. The Hanford Site had no occurrences to report in CY2003.
- Completed a contractor responsibility document to ensure all legal and regulatory requirements associated with groundwater management are appropriately assigned to Hanford contractors.
- Completed the EPCRA Tier II Report that is an annual submittal of detailed hazardous chemical information. The ERC report was submitted to FH for inclusion in the site-wide report for RL.

UPCOMING KEY ACTIVITIES:

Technical Services:

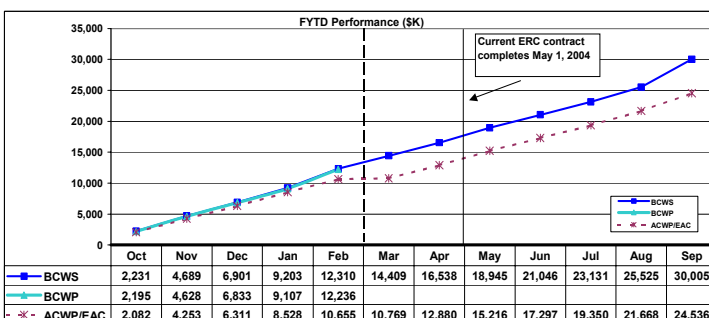
- Certification and submittal of Tier II Report to outside agencies by March 2004.
- Submittal of Hanford RCRA Permit Renewal Application to Ecology in March 2004.
- Audits of off-site analytical laboratories: DataChem, Cincinnati in March 2004, and Lionville Laboratory, Lionville in April 2004.
- Submittal of the draft 2003 Hanford Site Environmental Report in April 2004 for RL review.

ASSESSMENTS:

FY 2004 ERC Assessment Data							
Assessments	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Scheduled	14	15	16	19	22	30	28
Scheduled / Performed	11	12	13	16	15		
Past Due Completed	0	0	0	0	4		
Unscheduled / Performed	5	4	4	10	5		
Total Performed	16	16	17	26	24		

No significant findings during this reporting period.

PERFORMANCE:



- SV:** (\$74K); (0.6%). N/A
- CV:** \$1,581K; 12.9%.
- Safety and Health:**
 - RadCon has lost staff and is continuing scope at minimum compliance level supported by existing resources and temporary employees.
- Technical Services:**
 - Underrun in Regulatory Support, Design Engineering, Technology Applications, and Sample and Data Management due to more direct project support.
- ARQP:**
 - Lost full-time manager and 3 staff, which have now been replaced. CATS support is continuing at minimum levels, not all ISMS metrics and quarterly trend activities are being updated and reported. Recovery plan is being implemented.

EAC TRENDS:

FYTD: (\$5,469K)

Current Month: (\$421K)

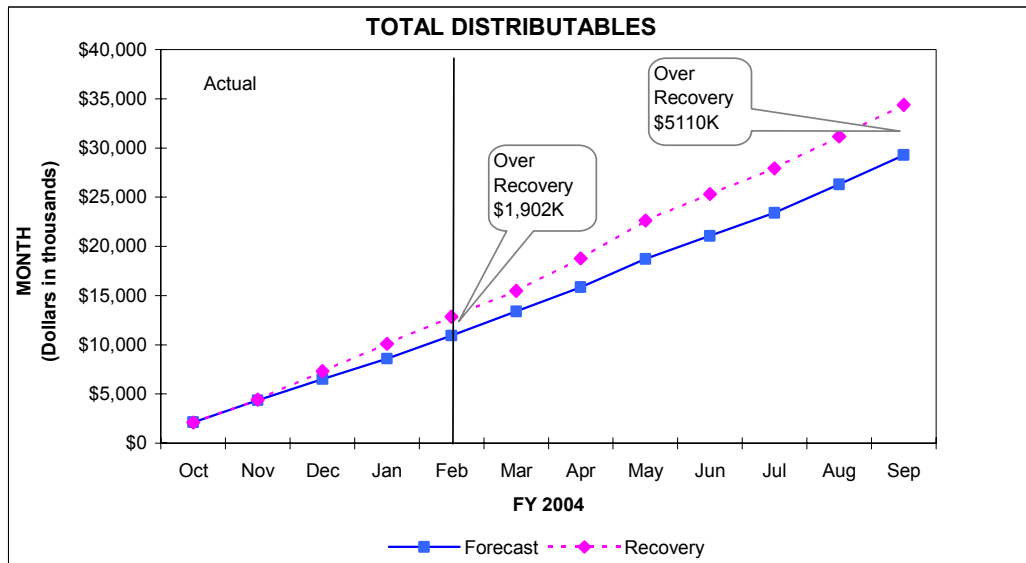
- Technical Services charging more direct project support.

ISSUES:

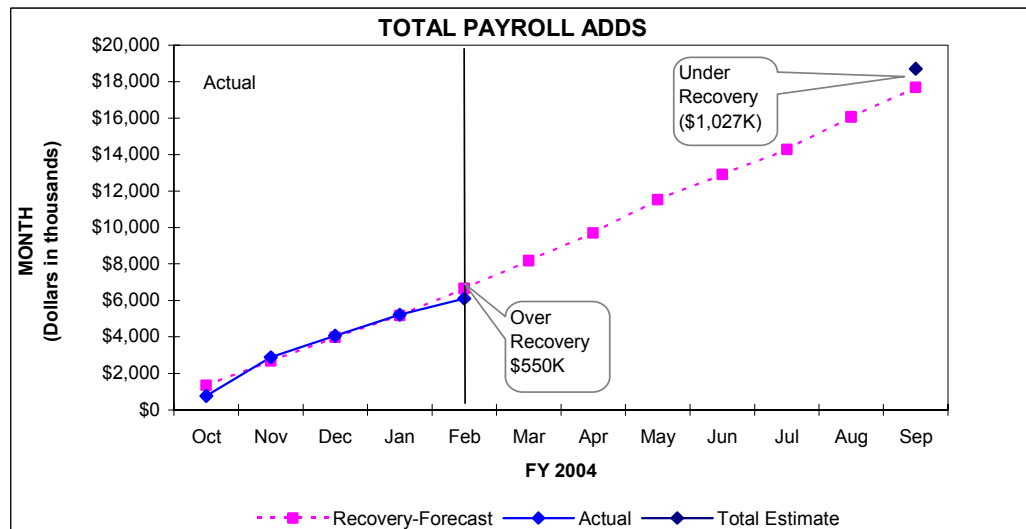
- Sampling at 190-DR pumphouse determined that there are materials containing asbestos near current work areas. Industrial Hygiene is currently investigating this issue.
- The increased volumes of waste for disposal at ERDF from other Site contractors will require 2-4 additional RCTs at ERDF.

ENVIRONMENTAL RESTORATION RECOVERY OF DISTRIBUTABLE COST

February 2004 Monthly Report



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
	Act	Act	Act	Act	Act	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	
Budget	2,289	2,801	2,242	2,533	2,889	2,597	2,608	3,073	2,531	2,483	3,127	2,957	32,131
Forecast	2,132	2,235	2,143	2,078	2,356	2,455	2,466	2,857	2,362	2,342	2,878	2,976	29,280
Recovery	2,113	2,310	2,908	2,765	2,750	2,630	3,303	3,848	2,699	2,615	3,241	3,208	34,390
Over/Under Recovery													
Monthly	-20	75	765	688	394	176	837	991	337	273	364	231	5,110
Cum	-20	55	820	1,508	1,902	2,077	2,915	3,905	4,242	4,515	4,879	5,110	



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Recovery-Budget	1,410	1,790	1,437	1,448	1,872	1,584	1,596	1,963	1,515	1,468	1,916	1,738	19,738
Recovery-Forecast	1,347	1,329	1,298	1,204	1,476	1,520	1,533	1,816	1,397	1,366	1,777	1,610	17,673
Actual	761	2,117	1,187	1,148	892								18,700
Over/Under Recovery													
Monthly	586	-788	111	56	584								
Cum	586	-202	-90	-34	550								-1,027



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